

NOTICE OF DRAFTSPERSON'S PATENT DRAWING REVIEW

This drawing was transmitted to the Patent and Trademark Office on 11-22-02.

The drawing was reviewed by the Draftsperson under 37 CFR 1.84 or 1.152.

The drawing was reviewed by the Draftsperson under 37 CFR 1.84 or 1.152 for the reasons indicated below. The Examiner will require

corrected drawings when necessary. Corrected drawing must be submitted according to the instructions on the back of this notice.

1. DRAWINGS. 37 CFR 1.84(a). Acceptable categories of drawings:

Black ink. (37 CFR 1.84(a))

Color drawings are not acceptable until petition is granted.

Fig(s)

Pencil and non black ink not permitted. Fig(s)

2. PHOTOGRAPHY. 37 CFR 1.84(b)

Thin-glass set is required. Fig(s)

Photograph may not be mounted. 37 CFR 1.84(c)

Poor quality (faded, etc.). Fig(s) 49

3. TYPE OF PAPER. 37 CFR 1.84(c)

Paper not flexible, strong, white, and durable.

Fig(s)

Erasures, alterations, overwritings, interfilications.

fold-copy machine marks not accepted. Fig(s)

Multiple-view paper (not acceptable (too thin)).

Fig(s)

4. SIZE OF PAPER. 37 CFR 1.84(f). Acceptable sizes:

21.0 cm by 27.9 cm (8 1/2 x 11 inches)

21.6 cm by 27.9 cm (8 1/2 x 11 inches)

All drawing sheets of the same size.

Sheet(s)

Drawing sheets not in acceptable size. Fig(s)

5. MARGINS. 37 CFR 1.84(g). Acceptable margins:

Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm

SIZE: A4 (7.25 x 11)

Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm

SIZE: 8 1/2 x 11

Margins to be acceptable. Fig(s) 3, 5-7, 9-18, 20-26, 29

Top (L) Left (L)

Right (R) Bottom (B)

6. VIEWS. 37 CFR 1.84(h)

REMARKS: Specification may require revision to

conform to drawing changes.

Partial views. 37 CFR 1.84(h)(2)

Erasures needed to show figure as one entity.

Fig(s)

Views not labeled separately or properly.

Fig(s)

Enlarged view not labeled separately or properly.

Fig(s)

7. SECTIONAL VIEWS. 37 CFR 1.84(h)(3)

Hatching not indicated for sectional portions of an object.

Fig(s)

Sectional designation should be noted with Arabic or

Roman numbers. Fig(s)

8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(j)

Views do not appear on a horizontal, left-to-right fashion

the page is either upright or turned so that the top

face is the right side, except for graphs. Fig(s)

9. SCALE. 37 CFR 1.84(k)

Scale not large enough to show mechanism without

crowding the drawing (reduced in size to two-thirds in

reproduction).

Fig(s)

10. CHARACTER OF LINES, NUMBERS, & LETTERS. 37 CFR 1.84(l)

Lines, numbers & letters not uniformly thick and well

defined, clean, durable, and black (poor line quality).

Fig(s) 48

11. SHADING. 37 CFR 1.84(m)

Solid black areas pale. Fig(s)

Solid black shading not permitted. Fig(s)

Shade lines, pale, rough and blurred. Fig(s)

12. NUMBERS, LETTERS, & REFERENCE CHARACTERS. 37 CFR 1.84(p)

Numbers and reference characters not plain and legible.

Fig(s) 48, 49

Figure legends are poor. Fig(s)

Numbers and reference characters not oriented in the

same direction as the view. 37 CFR 1.84(p)(1)

Fig(s)

Alphabet not used. 37 CFR 1.84(p)(2)

Fig(s)

Numbers, letters and reference characters must be at least

32 m (1.8 inch) in height. 37 CFR 1.84(p)(3)

Fig(s)

13. LEAD LINES. 37 CFR 1.84(q)

Lead lines cross each other. Fig(s)

Lead lines missing. Fig(s)

14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(t)

Sheet not numbered consecutively, and in Arabic numerals

beginning with number 1. Sheet(s)

15. NUMBERING OF VIEWS. 37 CFR 1.84(u)

Views not numbered consecutively, and in Arabic numerals,

beginning with number 1. Fig(s)

16. CORRECTIONS. 37 CFR 1.84(w)

Corrections not made from prior PTO-948

dated

17. DESIGN DRAWINGS. 37 CFR 1.152

Surface shading shown not appropriate. Fig(s)

Solid black shading not used for color contrast.

Fig(s)

COMMENTS

REVIEWER J. CHASE DATE 11-22-02 TELEPHONE NO. 703 305 8420

ATTACHMENT TO PAPER NO.

REVISION

If an inventor requires any additional change to the drawings of Fig. 1, Fig. 1A, Fig. 1B, Fig. 1C, etc., the specification, at the Brief Description of the Drawing, must likewise be changed. Please make such changes by 37 CFR 1.312 mandant at the time of submitting drawings.

INFORMATION ON HOW TO EFFECT DRAWING CHANGES

1. Correction of Drawings - 37 CFR 1.85

New corrected drawings must be filed with the changes incorporated therein. Identifying indicia, if provided, should include the title of the invention, inventor's name, and application number, or docket number (if any). If an application number has not been assigned to the application, if this information is provided, it must be placed in the top margin of each sheet and centered within the top margin. If corrected drawings are required in a Notice of Allowance (PTO 0-57), the new drawings **MUST** be filed within the **THREE MONTH** shortened time period set forth in the Notice of Allowance. Extensions of time may **NOT** be obtained under the provisions of 37 CFR 1.55(a) or (b) for filing the corrected drawings after the mailing of a Notice of Allowance. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

2. Corrections other than Informalities Noted by Draftsperson on form PTO-049

All changes to the drawings, other than informalities noted by the Draftsperson, **MUST** be made in the same manner as above, except that, normally, a highlighted (preferably red ink) sketch of the changes to be incorporated into the new drawings **MUST** be approved by the examiner before the application will be allowed. No changes will be permitted to be made, other than correction of informalities, unless the examiner has approved the proposed change.

Timing of Corrections

Applicant is required to submit the drawings corrections within the time period set in the attached Office communication. See 37 CFR 1.85(a).

Failure to take corrective action within the set period will result in **ABANDONMENT** of the application.

Attachment for PTO-948 (Rev. 03/01, or earlier)
6/18/01

The below text replaces the pre-printed text under the heading, "Information on How to Effect Drawing Changes," on the back of the PTO-948 (Rev. 03/01, or earlier) form.

INFORMATION ON HOW TO EFFECT DRAWING CHANGES

1. Correction of Informalities -- 37 CFR 1.85

New corrected drawings must be filed with the changes incorporated therein. Identifying indicia, if provided, should include the title of the invention, inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin. If corrected drawings are required in a Notice of Allowability (PTOL-37), the new drawings **MUST** be filed within the **THREE MONTH** shortened statutory period set for reply in the Notice of Allowability. Extensions of time may NOT be obtained under the provisions of 37 CFR 1.136(a) or (b) for filing the corrected drawings after the mailing of a Notice of Allowability. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

2. Corrections other than Informalities Noted by Draftsperson on form PTO-948.

All changes to the drawings, other than informalities noted by the Draftsperson, **MUST** be made in the same manner as above except that, normally, a highlighted (preferably red ink) sketch of the changes to be incorporated into the new drawings **MUST** be approved by the examiner before the application will be allowed. No changes will be permitted to be made, other than correction of informalities, unless the examiner has approved the proposed changes.

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